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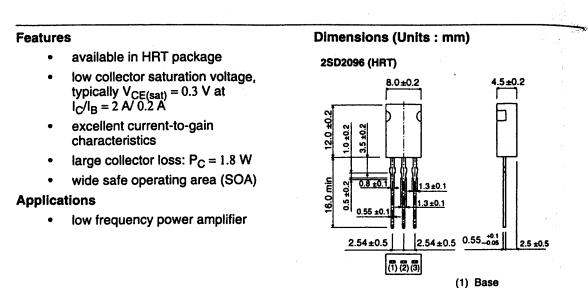
Rohm Semiconductor 2SD2096T114E

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



2SD2096

Transistor, NPN



(2) Collector (3) Emitter

Absolute maximum ratings (T_a = 25°C)

Parameter	Symbol	Limits	Unit	Conditions
Collector-to-base voltage	V _{CBO}	80	V	
Collector-to-emitter voltage	V _{CEO}	60	v	
Emitter-to-base voltage	V _{EBO}	5	V	
Collector current	lc –	3	A	Continuous (dc)
		6	A	Single pulse, P _W = 100 ms
Collector dissipation	Pc	1.8	W	
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55 ~ +150	°C	

Transistor, NPN, 2SD series 2SD2096

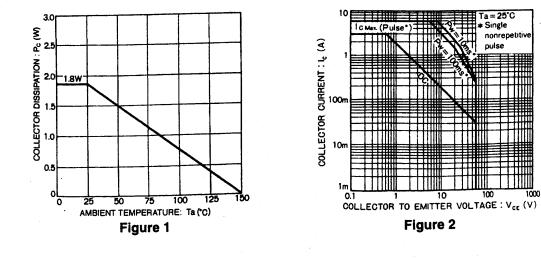
Electrical characteristics (unless otherwise noted, $T_a = 25^{\circ}C$)

Parameter	Symbol	Min	Typical	Max	Unit	Conditions
Collector-to-base breakdown voltage	BV _{CBO}	80			v	l _C = 50 μA
Collector-to-emitter breakdown voltage	BV _{CEO}	60			v	I _C = 1 mA
Emitter-to-base breakdown voltage	BV _{EBO}	5			v	I _E = 50 μA
Collector cutoff current	Ісво			10	μΑ	$V_{CB} = 60 V$
Emitter cutoff current	I _{EBO}			10	μΑ	V _{EB} = 4 V
DC current gain	h _{FE}	60		320		$V_{CE} = 5 V$, $I_C = 0.5 A$, single pulse
Collector-to-emitter saturation voltage	V _{CE(sat)}	-	0.3	1.0	V	$I_{C}/I_{B} = 2 \text{ A}/0.2 \text{ A}$, single pulse
Base-to-emitter saturation voltage	V _{BE(sat)}			1.5	V	$I_{C}/I_{B} = 2 \text{ A}/0.2 \text{ A}$, single pulse
Transition frequency	fT		8		MHz	$V_{CE} = 5 V, I_E = -0.5 A, f = 5 MHz$
Output capacitance	C _{ob}		70		pF	$V_{CB} = 10 \text{ V}, \text{ I}_{E} = 0 \text{ A}, \text{ f} = 1 \text{ MHz}$

h_{FE} rankings

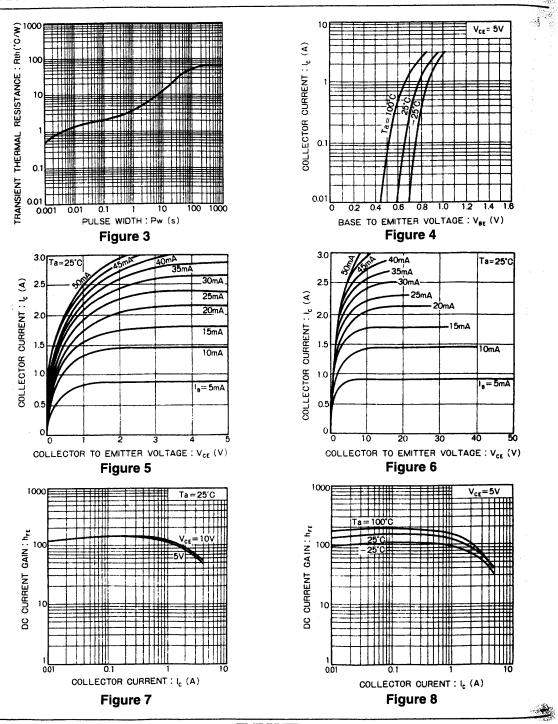
Item	D	E	F
h _{FE}	60 ~ 120	100 ~ 200	160 ~ 320

Electrical characteristic curves

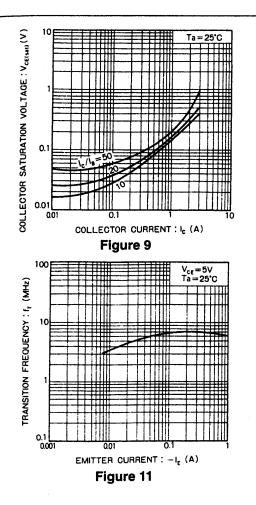


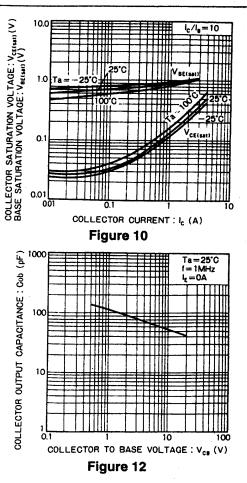


2SD2096 Transistor, NPN, 2SD series









Transistor, NPN, 2SD series 2SD2096

Ordering information

Package	Таре	
Code	T114	
Basic order quantity	1 000	
2SD2096	*	
★ = Standard, ☆ = Semi-sta	ndard, * = Special order	



Appendix

Notes

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